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UNITED STATI DEPARTMENT OF COMMERCE United States Pat int and Trad mark Office

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	PPLICATION NO. FILING DATE FIRST NAMED INVENTOR		ENTOR	. AT	TORNEY DOCKET NO.		
	09/827,3	02 04/05	01 KLINE		E	13395-0101 (
_				\neg	EXAMINER		
1	023594		HM12/1010	•	-		
	JOHN S. PRATT				MELLER,M		
		ск втоскто	N LLP		ART UNIT	PAPER NUMBER	
	1100 PEA	CHTREE		•	4.5.5.4	\overline{u}	
	SUITE 28				1651	1	
	ATLANTA (GA 30309			DATE MAILED:	. '	
						10/10/01	

Please find below and/or attached an Office communication concerning this application or proc eding.

Commissioner of Patents and Trademarks

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		Applicati	ion No	Applicant(a)					
		Applicati		Applicant(s)					
·	Office Action Summary	09/827,3		KLINE, ELLIS L.					
 	Office Action Summary	Examine	•	Art Unit					
	The MAIL ING DATE of this communica	Michael \		1651					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status 1)☐ R	Responsive to communication(s) filed	on							
l '_		on)⊠ This action is	s non-final						
3)□ S	ince this application is in condition fo	r allowance excep	ot for formal matters, p						
	losed in accordance with the practice	e under Ex parte G	, tuayie, 1935 C.D. 11, 2	100 O.G. 210.					
Disposition	aim(s) <u>1-11</u> is/are pending in the app	olication							
i —	· · · · · · · · · · · · · · · · · · ·		n consideration						
	4a) Of the above claim(s) <u>10 and 11</u> is/are withdrawn from consideration. 5) Claim(s) is/are allowed.								
·	6)⊠ Claim(s) <u>1-9</u> is/are rejected.								
·	aim(s) is/are objected to.								
	aim(s) are subject to restriction	n and/or election r	requirement.						
Λpplication	-		·						
9)[] The	e specification is objected to by the E	xaminer.							
10)[] The	e drawing(s) filed on is/are: a)	accepted or b)	objected to by the Exa	miner.					
A	Applicant may not request that any object	ion to the drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).					
11)□ The	e proposed drawing correction filed of	n is: a)□ a	approved b) disappro	oved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.									
12)⊠ The	e oath or declaration is objected to by	the Examiner.							
_	ler 35 U.S.C. §§ 119 and 120								
•	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)	a) ☐ All b) ☐ Some '* c) ☐ None of:								
	1. Certified copies of the priority documents have been received.								
,	2. Certified copies of the priority documents have been received in Application No.								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
 a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 									
Attachment(s)									
2) Notice of	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO- on Disclosure Statement(s) (PTO-1449) Pape			y (PTO-413) Paper No(s) Patent Application (PTO-152)					
J.S. Patent and Trader	nark Office		······································						

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DETAILED ACTION

Election/Restrictions

This application contains claims directed to the following patentably distinct species of the claimed invention: the species of neoplasm, specifically, solid tumors and blood borne tumors.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record

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showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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During a telephone conversation with Mary Merchant on 9/10/2001 a provisional election was made with traverse to prosecute the invention of solid tumors, claims 1-9. Affirmation of this election must be made by applicant in replying to this Office action. Claims 10 and 11 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Oath/Declaration

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

The claim for benefit from the provisional application is not proper since the provisional application Serial number of 60/195,5389 is not valid. It is suggested that applicant remove the last "9" and re-submit a newly executed declaration.

Claim Objections

Claim 2 is objected to because of the following informalities: a period is needed at the end of the claim. Appropriate correction is required.



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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 is confusing since "the tumor" finds no antecedant basis from claim 1.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watkins, Jr. et al. (Watkins) taken with Green et al. (Green).

Watkins teaches that solid tumor cells such as adenocarcinoma of the breast, lung, colon, or rectum from humans were treated with neuraminidase *in vitro* and that such treatment has a beneficial effect on such tumors, see abstract, page 799, right column, first full paragraph, "Materials and Methods", paragraph bridging page 802-803,



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and the "Discussion". Watkins also suggests that such neuraminidase-treated tumor cells can be reinjected into a human patient.

Watkins does not teach that the neuaminidase is dissolved in a phenol-saline solution, that the neuraminidase is administered directly to the tumor and that the enzyme is administered sublingually or nasally.

Green teaches that phenol-saline is a common physiologically-acceptable carrier for compositions, such as finely divided micro-particles of tyrosine, see col. 2, lines 56-65.

It would have been obvious for one of ordinary skill in the art to administer neuraminidase to a solid tumor such as colon cancer since Watkins teaches that neuraminidase was shown *in vitro* to beneficially effect the solid tumors of the breast, lung, colon and rectum and since Watkins also teaches that such neuraminidase-treated tumor cells can be reinjected into a human patient. Such teachings would lead one of ordinary skill in the art to conclude that neuraminidase beneficially affects the action of such tumors, thus leading one to administer the neuraminidase to the affected tumors of the human patient.

The adjustment of particular conventional working conditions (e.g., whether one injects the neuraminidase systemically or administers it nasally or sublingually), is deemed merely a matter of judicious selection and routine optimization which is well within the purview of the skilled artisan, absent evidence to the contrary.

Accordingly, this type of modification would have been well within the purview of the skilled artisan and no more than an effort to optimize results.

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From the teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention. Therefore, the invention as a whole was *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V. Meller whose telephone number is 703-308-4230. The examiner can normally be reached on Monday thru Friday: 10:30am-7:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 703-308-4743. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-0294 for regular communications and 703-308-0294 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

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MVM

October 3, 2001

Michael Meller

Patent Examiner

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